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Pacific Northwest Water Laboratory
Corvallis, Oregon

1972

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Publications
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National Environmental Research Center, (NERC), Corvallis, Oregon

PACIFIC NORTHWEST WATER LABORATORY

SPRING 1972

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INTRODUCTION

This report is a list of in-house papers and publications produced by staff members of the Corvallis Programs of the National Environmental Research Center, Corvallis, Oregon, through Spring 1972. In its brief history the Corvallis facility has known a number of agency and laboratory name changes. To clarify these changes for librarians who must catalog material, and for patrons who need to find publications, we include a very short chronology of events.

1961

Section 4(e) of the Federal Water Pollution Control Act directed the Secretary of Health, Education, and Welfare to establish, equip, and maintain field laboratory and research facilities. Plans were begun for a Pacific Northwest regional laboratory of the U. S. Public Health Service, Division of Water Supply and Pollution Control.

October 24, 1966

Dedication of the Pacific Northwest Water Laboratory, Corvallis, Oregon, now placed under the Department of the Interior, Federal Water Pollution Control Administration.

April 3, 1970

In accordance with the Water Quality Improvement Act of 1970, the name of the Federal Water Pollution Control Administration was changed to the Federal Water Quality Administration.

December 1970

In accordance with the President's Reorganization Plan No. 3 of 1970, the Environmental Protection Agency was established. It included those sections of the Department of Interior, the Department of Health, Education, and Welfare, the Department of Agriculture, the Atomic Energy Commission, and the Federal Radiation Council having to do with air pollution control, water pollution, solid waste management, radiation research, and pesticides research.

August 1971

The Environmental Protection Agency's Office of Research and Monitoring designated the Corvallis laboratory as one of the three National Environmental Research Centers of the U. S. Environmental Protection Agency. The other Centers are located at Research Triangle Park, North Carolina, and Cincinnati, Ohio. Associate Laboratories of National Environmental Research Center (NERC)-Corvallis are located at:

Ada, Oklahoma
Athens, Georgia
College, Alaska
Duluth, Minnesota
Grosse Ile, Michigan
Gulf Breeze, Florida
West Kingston, Rhode Island

Within the Center at Corvallis there are five active national research programs. These are:

1. National Coastal Pollution Research Program
2. National Thermal Pollution Research Program
3. National Eutrophication Research Program
4. National Waste Treatment Research Program, with emphasis on food waste research & paper & forest industries research
5. National Eutrophication Lake Survey Program

Assisting these programs in the areas of routine and specialized chemical, biological, and physical analyses is a Consolidated Laboratory Services Section.

Also located on the Corvallis site is the Western Fish Toxicology Branch of the National Water Quality Laboratory in Duluth, Minnesota. New facilities are being constructed for this Branch near the Willamette River in Corvallis.

PUBLICATIONS OF NATIONAL ENVIRONMENTAL RESEARCH CENTER (NERC)
Corvallis, Oregon

KEY TO SOURCES

*	Library, NERC, Corvallis, as long as supply lasts. For order form, see last page.
* GPO & price	GPO, after available supplies at Library, NERC, Corvallis are exhausted. Microfiche through NTIS - 95 cents.
GPO & price	Purchase through GPO. Microfiche through NTIS - 95 cents.
NTIS	National Technical Information Service. # - PB number not yet assigned. Microfiche - 95 cents.
OP	Out of print. Available through Library, NERC, Corvallis, and many other EPA and University libraries with an interlibrary loan form.
Journal, Proceedings, etc.	No reprints available. See published article.
* Journal, *Proceedings, etc.	Library, NERC, Corvallis, as long as supply lasts. Then see published article.
IP	In preparation. Name kept on file for notification when available.
ILL	Interlibrary loan.
@	Transcripts of conferences are on file in many EPA libraries, federal depository libraries, and other university collections. You may also contact the appropriate regional EPA offices for copies of transcripts.

ADDRESSES WHERE PUBLICATIONS AVAILABLE

NERC - Library
National Environmental Research Center
U. S. Environmental Protection Agency
200 S.W. 35th St.
Corvallis, OR 97330

NTIS - National Technical Information Service
Department of Commerce
Springfield, VA 22151

GPO - Superintendent of Documents
U. S. Government Printing Office
Washington, DC 20402

U. S. Environmental Protection Agency
National Environmental Research Center
Corvallis, Oregon 97330

PUBLICATIONS AND PAPERS

NATIONAL COASTAL POLLUTION RESEARCH PROGRAM

No.	Title of Publication	Source
X-6	Bartsch, A. F., R. J. Callaway, R. A. Wagner, and C. E. Woelke 1967 Technical approaches toward evaluating estuarine pollution problems. In Estuaries, edited by George H. Lauff. Publication No. 83, American Association for the Advancement of Science, Washington, DC, 1967. pp. 693-700.	*
C-1	Baumgartner, D. J. 1971 Capabilities and limitations of models as estuarine pollution control techniques. Presented at 7th Annual Conference & Exposition, Marine Technology Society, August 16-18, Washington, DC.	IP
C-2	Baumgartner, D. J. 1970 Disposal of liquid and particulate wastes to the ocean. Chemical Engineering Symposium Series, Water - 1970. 67(107):46-53.	*
C-3	Baumgartner, D. J., R. J. Callaway, and G. R. Ditsworth 1968 Disposal of solid aluminum wastes in the ocean, Working Paper No. 64, Pacific Northwest Water Laboratory, Corvallis, OR. 14 pp.	NTIS #
C-4	Baumgartner, D. J. 1969 Discussion of a paper entitled: The fate of intestinal bacteria in the sea, by R. Mitchell and J. Carell Morris. In S. H. Jenkins, ed. Advances in water pollution research. Proceedings of the 4th International Conference held in Prague, 1969. Pergamon, NY. 1969. pp. 819-821.	*
C-5	Baumgartner, D. J., M. H. Feldman, L. C. Bentsen, and T. L. Cooper 1970 Field studies in Yaquina River Estuary of surface gas transfer rates. In Direct Tracer Measurements of Reaeration Capacity of Streams and Estuaries, Proceedings, Federal Water Quality Administration--Georgia Institute of Technology Symposium and Demonstration. July 7-8. Atlanta, GA. 14 pp.	* IP

No.	Title of Publication	Source
C-6	Baumgartner, D. J. and D. S. Trent 1970 Ocean outfall design - Part I: Literature review and theoretical development. Pacific Northwest Water Laboratory, Corvallis, OR. 129 pp. (Note: Will be reprinted with Part II by EPA's Project Report System, date unknown.)	NTIS PB 203-749
C-7	Baumgartner, D. J. and W. A. Cawley 1968 Our contaminated coastal waters. Oceanology International 3(7):39-41.	*
C-8	Baumgartner, D. J., M. H. Feldman, and C. L. Gibbons 1971 A procedure for tracing of kraft mill effluent from an ocean outfall by constituent fluorescence. Water Research 5(8):533-544.	* Journal
C-9	Baumgartner, D. J. and R. J. Callaway 1970 State-of-the-art for simulation of pollution problems and controls in estuaries. Paper presented at Food and Agriculture Organization of the U. N. Technical Conference on Marine Pollution and its Effects on Living Resources and Fishing. December 9-18, FAO, Rome, Italy. Unpublished manuscript.	*
C-10	Baumgartner, D. J. 1968 Statement before the enforcement conference on pollution of Lake Michigan and its tributary basin, Chicago, January 31. Vol. 2, pp. 761-811.	* @ Proceedings
C-11	Baumgartner, D. J. 1969 Statement on the fate of taconite wastes discharged to Lake Superior. In Proceedings of the Conference on Pollution of Lake Superior and its tributary basin, Minnesota-Wisconsin-Michigan, in Duluth, MN, on May 13-15, 1969. Vol. 1, pp. 178-186.	@ Proceedings
C-12	Baumgartner, D. J., W. P. James, and G. L. O'Neal 1969 A study of two ocean outfalls. Presented at West Coast Regional Meeting, National Council of the Paper Industry for Air and Stream Improvement, Inc. Oct. 14, and printed as Part III of their Tech. Bul. No. 231, December 1969, The use of aerial photogrammetry and fluorescent spectroscopy to evaluate ocean outfall dispersion of kraft effluent. pp. 27-53.	Tech. Bulletin
C-13	Baumgartner, D. J., D. S. Trent, and K. V. Byram 1971 User's guide and documentation for outfall plume model, Working Paper No. 80. Pacific Northwest Water Laboratory, Corvallis, OR. 29 pp.	NTIS PB 204-577

No.	Title of Publication	Source
C-14	Callaway, R. J. 1971 Applications of some numerical models to Pacific Northwest estuaries. In Proceedings, Oregon State University Technical Conference on Estuaries of the Pacific Northwest, March 19. Circular No. 42, OSU Engineering and Experiment Station, Corvallis, OR. pp. 29-97.	* Proceedings
C-15	Callaway, R. J., K. V. Byram, and G. R. Ditsworth 1969 Mathematical model of the Columbia River from the Pacific Ocean to Bonneville Dam - Part I: Theory, program notes and programs. Pacific Northwest Water Laboratory, Corvallis, OR. 155 pp. (Note: Will be reprinted with Part II by EPA's project report system, date unknown.)	NTIS PB 202-422
C-16	Callaway, R. J. and K. V. Byram 1971 Mathematical model of the Columbia River from the Pacific Ocean to Bonneville Dam - Part II: Input-output and initial verification procedures. Pacific Northwest Water Laboratory, Corvallis, OR. 130 pp.	*NTIS PB 202-423
C-17	Callaway, R. J., G. R. Ditsworth, and D. L. Cutchin 1970 Salinity, runoff and wind measurements Yaquina Estuary Oregon, April 1967 - October 1968, Working Paper No. 70. Pacific Northwest Water Laboratory, Corvallis, OR. 42 pp.	NTIS #
C-18	Callaway, Richard 1970 Statement before the conference on pollution of Lake Michigan and its tributary basin, 3rd session, reconvened in workshop sessions, October 1-2, Chicago Vol. 3, pp. 1379-1384.	@ Proceedings
C-19	Callaway, Richard J. 1970 Summary of the oceanography and surface wind structure of the Pacific Subarctic Region in relation to waste releases at sea, Working Paper No. 76. Pacific Northwest Water Laboratory, Corvallis, OR. 66 pp.	NTIS PB 204-739
C-20	Clark, B. D., W. F. Rittall, D. J. Baumgartner, and K. V. Byram 1971 The barged ocean disposal of wastes; a review of current practice and methods of evaluation. Pacific Northwest Water Laboratory, Corvallis, OR. 120 pp.	* NTIS #
C-21	DeBen, Waldemar A. 1970 Design and construction of a salt water environment simulator, Working Paper No. 71. Pacific Northwest Water Laboratory, Corvallis, OR. 30 pp.	NTIS #

No.		Title of Publication	Source
C-22	Ditsworth, George R. 1966	Environmental factors in coastal and estuarine waters: Bibliographic series - Volume I - Coast of Oregon. Pacific Northwest Water Laboratory, Corvallis, OR. 62 pp.	* NTIS PB 202-878
C-23	Ditsworth, George R. 1968	Environmental factors in coastal and estuarine waters: Bibliographic series - Volume II - Coast of Washington. Pacific Northwest Water Laboratory, Corvallis, OR. 81 pp.	* NTIS PB 202-879
C-24	Ditsworth, George R. 1967	Index to research on coastal and estuarine waters in the United States. Pacific Northwest Water Laboratory, Corvallis, OR. 33 pp.	NTIS #
C-25	Feldman, M. H. 1970	The 50-mile ballast-oil dumping prohibited zone off Alaska reconsidered in the light of available data gleaned from significant incidents, Working Paper No. 77. Pacific Northwest Water Laboratory, Corvallis, OR. 22 pp.	* NTIS PB 204-740
C-26	Feldman, Milton H. 1970	Trace materials in wastes disposed to coastal waters: Fates, mechanisms, and ecological guidance and control, Working Paper No. 78. Pacific Northwest Water Laboratory, Corvallis, OR. 102 pp.	NTIS PB 202-346
C-27	James, Wesley P., Fred J. Burgess, and Don Baumgartner 1971	An aerial photographic study of waste field from three ocean outfalls. Presented at Third Annual Offshore Technology Conference held in Houston, TX, April 19-21. Paper No. OTC 1374. pp. I483-I490. Preprint.	*
C-28	National Coastal Pollution Research Program, Staff Newsletter. Pacific Northwest Water Laboratory, Corvallis, OR. Issues available: 1970, 1971.		*

CONSOLIDATED LABORATORY

W-~~2~~ 3	Burm, R. J., Daniel F. Krawczyk, and G. L. Harlow 1968	Chemical and physical comparison of combined and separate sewer discharges. Journal Water Pollution Control Federation 40(1):112-126.	Journal
CL-1	Krawczyk, Daniel F. 1971	Analytical quality control. In Minutes, 39th Meeting Water Supply and Water Pollution Control Committee, Pacific Northwest River Basins Commission. February 2. Portland, OR. 21 pp.	*

No.	Title of Publication	Source
CL-2	Krawczyk, Daniel F. 1969 Analytical techniques for the National Eutrophication Research Program. Pacific Northwest Water Laboratory, Corvallis, OR. 141 pp.	*
CL-3	Krawczyk, Daniel F., J. McLane, and R. D. Vaughan 1966 Determination of ammonia nitrogen and organic nitrogen following the analysis of phenol. In Proceedings. Ninth Conference on Great Lakes Research, Chicago, March 28-30. University of Michigan, Great Lakes Research Division, Publication No. 15:395-399.	*
CL-4	Krawczyk, Daniel F. 1969 Dissolved oxygen uptake of dredge materials into aquatic environment. Presented at 36th Annual Meeting of Pacific Northwest Pollution Control Association. November 6. Seattle, WA.	* IP
CL-5	Krawczyk, D. F., P. L. Taylor, and W. D. Kee, Jr. 1966 Laboratory sample control and computer verification of results at Lake Huron program office. Presented at Ninth Conference on Great Lakes Research, March 29. Illinois Institute of Technology Research Institute. Chicago. Unpublished.	*
CL-6	Krawczyk, D. F., and K. V. Byram A management system in operating a chemical analytical laboratory - SHAVES	IP
CL-7	Krawczyk, Daniel F. 1968 Phosphorus and nitrogen analysis of wastewater treatment plant control. Presented at Wastewater Treatment Plant Operators Course; and at 35th Annual Meeting of Pacific Northwest Pollution Control Association, Penticton, BC, in October. 34 pp. Unpublished.	*
CL-8	Krawczyk, Daniel F. 1970 Research Needs from the viewpoint on the Federal Program Northwest Region -- Analytical methodology. Presented at 37th Annual Meeting of Pacific Northwest Pollution Control Association. October 23. Victoria, BC. Unpublished.	*
E-18	Malueg, K. W., C. F. Powers, and D. F. Krawczyk 1972 Effects of aerial forest fertilization with urea pellets on nitrogen levels in a mountain stream. Northwest Science, 46(1):52-58.	*
CL-9	Malueg, N. J. and D. F. Krawczyk Tracing oil as a pollutant in water.	IP

NATIONAL EUTROPHICATION RESEARCH PROGRAM

No.	Title of Publication	Source
E-1	Bartsch, A. F. 1970 Accelerated eutrophication of lakes in the United States: Ecological response to human activities. Environmental pollution. Elsevier Pub. Co. 1:133-140.	Journal*
E-2	Bartsch, A. F., and C. F. Powers 1969 Changes in the Great Lakes and present status. Presented at American Chemical Society meeting held in Minneapolis, Minn., April 16. Unpublished.	*
E-3	Bartsch, A. F. 1970 Eutrophication: a threat to water resources. In Proceedings of the Bioresources of Shallow Water Environments National Symposium on Hydrobiology. Miami Beach, Florida, June 24-27. American Water Resources Association, Urbana, Ill. pp. 127-135.	* Proceedings
E-4	Bartsch, A. F. 1968 Eutrophication problems in reservoirs. In Reservoirs: Problems and Conflicts Seminar conducted by Oregon State University Water Resources Research Institute, Fall Quarter, 1968. Oregon State University, Corvallis, Ore. SEMN WR 010.68. Published in January, 1969. pp. 23-30.	* Proceedings
E-5	Bartsch, A. F. 1970 Overview of lake restoration and the role of the federal government. Presented at 138th Annual Meeting of the AAAS, December 26-31, in Chicago, Ill. Unpublished.	*
E-6	Bartsch, A. F. 1971 Role of the federal government in controlling nutrients in natural waters. Presented at American Chemical Society Symposium on Nutrients in Natural Waters, Los Angeles, California, March 28-April 2.	IP
E-7	Bartsch, A. F. 1968 Statement on eutrophication conditions in Lake Michigan. In Proceedings of the conference on the pollution of Lake Michigan and its tributary basin, January 31, in Chicago. Vol. 2, pp 649-751. Complete text printed in Congressional Record, February 5, 1968. Also published as Eutrophication is beginning in Lake Michigan, Water & Water Engineering, 5:84-87.	Cong. Record @ Proceedings Journal

No.	Title of Publication	Source
E-8	Bartsch, A. F. 1969 Statement on eutrophication conditions in the upper Potomac estuary. In Proceedings of the Conference in the matter of pollution of the interstate waters of the Potomac River (Washington Metropolitan Area) - District of Columbia - Maryland - Virginia. Washington, D. C., April 2. U. S. Federal Water Pollution Control Administration. pp. 420-437.	* @ Proceedings
E-9	Bartsch, A. F. 1969 Statement on eutrophication in relation to Lake Superior. In Proceedings of the Conference. Pollution of Lake Superior and its tributary basins, Minnesota-Wisconsin-Michigan, in Duluth, Minn., May 13-15. Vol. 1, pp. 189-201.	* @ Proceedings
E-10	Bartsch, A. F. 1970 The technology available and needed to control eutrophication. In Lake eutrophication - Water pollution causes, effects and control. Papers presented at the Save the Lakes Symposium, August 18-19, 1969, at Detroit Lakes, Minnesota. University of Minnesota Water Resource Research Center, Bulletin No. 22, 1970. pp. 34-42.	Proceedings
E-11	Gahler, A. R. 1969 Field studies on sediment-water algal nutrient interchange processes and water quality of Upper Klamath and Agency Lakes, July 1967 - March 1969, Working Paper No. 66. Pacific Northwest Water Laboratory, Corvallis, Ore. 60 pp.	* NTIS #
E-12	Gahler, A. R., and W. D. Sanville 1971 Lake sediments. Characterization of lake sediments and evaluation of sediment-water nutrient interchange mechanisms in the Upper Klamath Lake System. Paper presented at 14th Conference of International Association of Great Lakes Research, University of Toronto, April 19-21, 1971, and at Western Soils and Water Research Committee, Corvallis, Oregon, April 20, 1970. 40 pp. Unpublished.	ILL
E-13	Gahler, Arnold R. 1969 Sediment - water nutrient interchange. In Proceedings of the eutrophication-biostimulation assessment workshop held in Berkeley, June 19-21. University of California, Berkeley, and Pacific Northwest Water Laboratory, Corvallis, Ore. pp. 243-257.	* Proceedings
E-14	Joint Industry/Government Task Force on Eutrophication 1969 Provisional algal assay procedure. Pacific Northwest Water Laboratory, Corvallis, Ore. 62 pp.	*

No.	Title of Publication	Source
E-15	Maloney, Thomas E., William E. Miller, and Tamotsu Shiroyama 1971 Algal responses to nutrient additions in natural waters. I. Laboratory assays. In Nutrients and eutrophication: the limiting-nutrient controversy. Proceedings of a symposium held at the W. K. Kellogg Biological Station, Michigan State University, February 11-12, 1971. Special Symposia, Vol. I, G. E. Likens, editor. Lawrence, Kansas, American Society of Limnology and Oceanography, Inc. 1972. pp. 134-140.	* Proceedings
E-16	Maloney, Thomas E., and Alfred F. Bartsch 1969 Research to save America's lakes. Chemical Engineering Progress, Symposium Series, 65(97):278-280.	*
E-17	Malueg, K. W., J. R. Tilstra, D. W. Schults, and C. F. Powers 1971 The effect of induced aeration upon stratification and eutrophication processes in an Oregon farm pond. Presented at the International Symposium on Man Made Lakes. May, 1971. Knoxville, Tennessee. American Geophysical Union Monograph Series, Vol. 15.	IP
E-18	Malueg, K. W., C. F. Powers, and D. F. Krawczyk 1972 Effects of aerial forest fertilization with urea pellets on nitrogen levels in a mountain stream. Northwest Science, 46(1):52-58.	*
E-19	Malueg, K. W., J. R. Tilstra, D. W. Schults, and C. F. Powers Limnological Observations on an ultra-oligothrophic lake in Oregon, USA. In International Association of Theoretical and Applied Limnology, Vol. 18.	IP
E-20	Middlebrooks, E. J., T. E. Maloney, C. F. Powers, and L. M. Kaack, editors 1969 Proceedings of the eutrophication-biostimulation assessment workshop held in Berkeley, June 19-21. University of California, Berkeley, and Pacific Northwest Water Laboratory, Corvallis, Ore. 281 pp.	OP
E-21	Miller, William E., and Thomas E. Maloney 1971 Effects of secondary and tertiary wastewater effluents on algal growth in a lake-river system. Journal Water Pollution Control Federation 43(12):2361-65.	*
E-22	Miller, William E., and Jerry C. Tash 1967 Interim report Upper Klamath Lake studies, Oregon. Publication No. WP-20-8. Pacific Northwest Water Laboratory, Corvallis, Ore. 37 pp.	OP
E-23	National Eutrophication Research Program 1971 Algal assay procedure: Bottle Test. National Environmental Research Center, Corvallis, Ore. 85 pp.	*

No.	Title of Publication	Source
E-24	National Eutrophication Research Program Staff Eutrophication Research Newsletter. Pacific Northwest Water Laboratory, Corvallis, OR. Issues available: 1970, 1971.	*
E-25	National Eutrophication Research Program 1971 Interlaboratory precision test. An eight-laboratory evaluation of the provisional algal assay procedure bottle test. Compiled and statistically evaluated by Charles M. Weiss, Ronald W. Helms, and Gail Marshall of the University of North Carolina, Chapel Hill. Published by Environmental Protection Agency, Corvallis, Ore. 1971. 70 pp.	*
E-26	National Eutrophication Research Program 1970 Summary of discussions, lake restoration workshop. Washington, D. C., March 2-3. Pacific Northwest Water Laboratory, Corvallis, Ore. 8 pp.	*
M-3	Nielson, Lyman J., Donald W. Schults, Richard B. Marston 1969 Water solubles removed from surfaces stabilized with asphalt. Water Pollution Control Federation Journal, 41(2, Pt.1):297-301.	Journal
E-27	Powers, C. F., D. W. Schults, K. W. Malueg, Robert M. Brice, and Marcus D. Schuldt 1971 Algal responses to nutrient additions in natural waters. II. Field experiments. In Nutrients and eutrophication: the limiting-nutrient controversy. Proceedings of a symposium held at the W. K. Kellogg Biological Station, Michigan State University, February 11-12, 1971. Special Symposia, Vol. I, G. E. Likens, editor. Lawrence, Kansas, American Society of Limnology and Oceanography, Inc. 1972. pp. 141-154.	* Proceedings
E-28	Powers, Charles F. 1970 Eutrophication of lakes. In Man and Aquatic Communities, Seminar conducted by Oregon State University Water Resources Research Institute, Spring Quarter, 1970. Oregon State University, Corvallis, Ore. SEMN WR 012.70. pp. 9-14.	Proceedings
E-29	Powers, Charles F. and Robert M. Brice 1970 Nutrient control by advanced waste treatment: The Ely, Minnesota, experiment. Presented at 137th meeting American Association for the Advancement of Science, Lake Restoration Symposium, at Pick Congress Hotel, December 29. 8 pp. Unpublished.	*

No.	Title of Publication	Source
E-30	Powers, Charles 1970 Statement before the conference on pollution of Lake Michigan and its tributary basin, 3rd session, reconvened in workshop sessions, Oct. 1-2, Chicago. Vol. 3, pp. 1367-1379.	@ Proceedings
E-31	Schults, D. W., and K. W. Malueg 1971 Uptake of radiophosphorus by rooted aquatic plants. In Proceedings, 3rd National Symposium on Radio-ecology, Oak Ridge, Tennessee, May 10-12.	IP
E-32	Tilstra, John R., Kenneth W. Malueg, and Winston C. Larson 1971 Evaluation study on removal of phosphorus and nitrogen from sewage effluents by induced soil percolation. Submitted to Journal of Water Pollution Control Federation.	IP
E-33	University of Washington/Federal Water Pollution Control Administration 1967 Environmental requirements of blue-green algae. Proceedings of a symposium, September 23-24, 1966, at University of Washington, Seattle. Sponsored by the Pacific Northwest Water Laboratory and the University of Washington. Pacific Northwest Water Laboratory, Corvallis, Ore. 111 pp.	NTIS #

NATIONAL WASTE TREATMENT RESEARCH PROGRAM

W-1	Boydston, James R. 1970 Plywood and sawmill liquid waste disposal. Presented at Innovation in Forest Products Industry, sponsored by Forest Products Research Society. October 8-9. Penticton, B.C. Published in Forest Products Journal 21(9):58-63, 1971.	Journal
W-2	Burm, R. J., M. W. Cochrane, and K. A. Dostal 1971 Cannery waste treatment with RBC and extended aeration pilot plants. In Proceedings: Second National Food Waste Symposium, Denver, Colorado, March 23-26. Water Pollution Control Research Series 12060---03/71, pp. 227-250.	* Proceedings
W-3	Burm, R. J., Daniel F. Krawczyk, and G. L. Harlow 1968 Chemical and physical comparison of combined and separate sewer discharges. Journal Water Pollution Control Federation 40(1):112-126.	Journal

No.	Title of Publication	Source
W-4	Burm, R. J. 1970 The effect of turbid, high carbohydrate, sugar processing wastes on tropical open sea. In S. J. Jenkin, ed. Advances in Water Pollution Research, Proceedings of the Fifth International Conference, San Francisco and Hawaii, 1970. Pergamon Press, New York, p.HA-17/1-6.	Proceedings
W-5	Dostal, Kenneth A. 1968 Aerated lagoon treatment of food processing wastes. Washington, D.C. Government Printing Office. Water Pollution Control Research Series 12060---03/68. 49 pp. (Published first as Progress report on aerated lagoon treatment of food processing wastes, PR-5. Corvallis, Pacific Northwest Water Laboratory, 1968.)	*
W-6	Dostal, K. A. 1970 Aerated lagoons for potato processing wastes. In Proceedings, Second International Symposium for Waste Treatment Lagoons, held in Kansas City, Missouri, June 23-25, sponsored by the Missouri Basin Engineering Health Council and Federal Water Quality Administration. pp 243-249. (Edited and distributed by R. E. McKinney, 217 Nuclear Reactor Center, University of Kansas, Lawrence, Kansas 66044.)	Proceedings
W-7	Dostal, Kenneth A. 1969 Secondary treatment of potato processing wastes. Washington, D. C. Government Printing Office. Water Pollution Control Research Series 12060---07/69. 63 pp.	*
W-8	Dostal, K. A., and R. J. Burm 1970 Status of R&D efforts on food processing wastes. In Proceedings: First National Symposium on Food Processing Wastes. Water Pollution Control Research Series 12060---04/70. Portland, Oregon, April 6-8. pp. 17-26.	*
W-9	National Waste Treatment Program, Staff Newsletter. Pacific Northwest Water Laboratory, Corvallis, Ore. Issues available: 1970, 1971	*
W-10	National Waste Treatment Program, Staff 1967 Progress report. Pilot plant studies on secondary treatment of potato process water. Pacific Northwest Water Laboratory, Corvallis, Ore. 23 pp. Unpublished.	ILL

No.	Title of Publication	Source
W-11	Pacific Northwest Water Laboratory, Western Regional Research Laboratory, National Canners Association, Northwest Food Processors Association 1970 First national symposium on food processing wastes, Proceedings of a symposium held in Portland, Oregon, April 6-8. Pacific Northwest Water Laboratory, Corvallis, Ore. Also published as Water Pollution Control Research Series 12060---04/70. 400 pp.	GPO* NTIS PB 199-709
W-12	Pacific Northwest Water Laboratory, Environmental Protection Agency and National Canners Association 1971 Second national symposium on food processing wastes, Proceedings of a symposium held in Denver, Colorado, March 23-26. Oregon State University, Corvallis, Ore. Also published as Water Pollution Control Research Series 12060---03/71. 664 pp.	*
W-13	Taylor, Dennis W., and Robert J. Burm 1972 Full-scale anaerobic filter treatment of wheat starch plant wastes. Paper presented at the 71st National meeting, American Institute of Chemical Engineers, Dallas, Texas, Feb. 20-23. To be published in the American Institute of Chemical Engineer's Annual, entitled: Water-1972. Also presented at the Annual Meeting, Pacific Northwest Pollution Control Association, Spokane, Washington, October 27-29, 1971. To be published in their proceedings.	* IP
W-14	University of Idaho and Pacific Northwest Water Laboratory 1968 Potato waste treatment. Proceedings of a Symposium held in Moscow, Idaho, March 8. Pacific Northwest Water Laboratory, Corvallis, Ore. 88 pp.	NTIS #
W-15	Vivian, Robert W., and Kenneth A. Dostal 1968 Potato processing wastes: Progress report on pilot plant studies of secondary treatment, Report No. PR-4. Pacific Northwest Water Laboratory, Corvallis, Ore. 68 pp.	OP
W-16	Willard, H. Kirk 1972 Coagulation of pulp and paper aerated lagoon effluents for color and solids removal, by H. Kirk Willard and Ralph H. Scott. A paper presented by Dr. Willard at the 71st National Meeting, American Institute of Chemical Engineers, February 20-23, Dallas, Texas. To be published in the American Institute of Chemical Engineer's Annual, entitled: Water-1972.	* IP

MANPOWER AND TRAINING BRANCH*

No.	Title of Publication	Source
M-1	Nielson, Lyman J. 1967 Evaluation of pre-impoundment conditions for prediction of stored water quality. In Reservoir Fishery Resources Symposium, Athens, Georgia. April 4-7. pp. 153-168.	Proceedings
M-2	Nielson, Lyman J. 1966 Inventory of research in water pollution and other related fields. Columbia basin and Pacific Coast States. Pacific Northwest Water Laboratory, Corvallis, Ore. 135 pp.	OP
M-3	Nielson, Lyman J., Donald W. Schults, Richard B. Marston 1969 Water solubles removed from surfaces stabilized with emulsified asphalt. Water Pollution Control Federation Journal, 41(2, Pt. 1):297-301.	Journal

*Region X Program, now located in Seattle, Washington.

NATIONAL THERMAL POLLUTION RESEARCH PROGRAM

T-1	Christianson, Alden G., and Bruce A. Tichenor 1969 Economic aspects of thermal pollution control in the electric power industry, Working Paper No. 67. Pacific Northwest Water Laboratory, Corvallis, Ore. 13 pp.	*NTIS #
T-2	Christianson, Alden G. 1969 Thermal pollution. Paper presented at the Missouri Water Pollution Control Association, Annual Meeting. February 25. Kansas City, Missouri. Unpublished.	*
T-3	Garton, Ronald R., and Alden G. Christianson 1970 Beneficial uses of waste heat -- an evaluation. Washington, D. C. Government Printing Office. Water Pollution Control Research Series 16130---04/70. 7 pp.	* NTIS PB 201-724
T-4	Garton, Ronald R. 1972 Biological effects of cooling tower blowdown. Presented at 71st National Meeting, American Institute of Chemical Engineers, February 20-23, Dallas, Texas. 25 pp. To be published in the American Institute of Chemical Engineer's Annual, entitled: Water--1972.	* IP
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T-7	National Thermal Pollution Research Program, Staff 1968 Industrial waste guide on thermal pollution. Pacific Northwest Water Laboratory, Corvallis, OR. 112 pp.	NTIS PB 197-262
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T-9	Rainwater, Frank H. 1971 Recent developments in thermal waste control. In Intersociety Energy Conversion Engineering Conference, P38, Proceedings of a meeting held August 3-6, in Boston, Mass. Society of Automotive Engineers. Published by The Institute of Electrical and Electronics Engineers, N. Y. pp. 728-730. Reprint No. 719099.	*
T-10	Rainwater, Frank H. 1968 Research in thermal pollution control. In Proceedings, 4th American Water Resources Conference, held in New York, N. Y., November 18-22. American Water Resources Association, Urbana, Illinois. pp. 140-145.	* Proceedings
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T-15	Tichenor, Bruce A. 1968 FWPCA's role in thermal pollution control. Presented at the Cooling Tower Institute Meeting, Water Conservation Symposium, June 25, Los Angeles, California. Pacific Northwest Water Laboratory, Corvallis, Ore. 13 pp. Unpublished.	ILL
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T-17	Tichenor, Bruce A. 1971 Statement. In Conference in the matter of pollution of Lake Michigan and its tributary basin, 3rd session (Reconvened), March 24-25, 1971, in Chicago. pp 157-173.	Proceedings @
T-18	Tichenor, Bruce A. 1970 Statement before the conference on pollution of Lake Michigan and its tributary basin, 3rd session (Reconvened in workshop sessions), Sept. 28-30, Oct. 1-2, Chicago. pp. 162-311.	Proceedings @
T-19	Tichenor, Bruce A. 1968 Thermal pollution (A Seminar Paper). Pacific Northwest Water Laboratory, Corvallis, Ore. 10 pp. Unpublished.	*
T-20	Winiarski, Lawrence D., Bruce A. Tichenor, and Kenneth V. Byram 1970 A method for predicting the performance of natural draft cooling towers. Washington, D. C. Government Printing Office. Water Pollution Control Research Series 16130GKF12/70.	GPO *
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X-1	Bartsch, A. F., and William M. Ingram 1966 Biological analysis of water pollution in North America. Vern. Internat. Verein. Limnol., Stuttgart, 16:786-800.	*
X-2	Bartsch, A. F. 1966 Formal discussion of Paper I-3, Impact on spraying insecticides over forests by P. F. Elson and C. J. Kerswill. In Advances in water pollution research. Proceedings of the Second International Conference held in Munich, Germany, September 5-9. Washington, D. C., Water Pollution Control Federation, 1967. pp 70-72.	*
X-3	Bartsch, A. F. 1964 The interest of the Pacific Northwest Water Laboratory in pest control. In Proceedings, Pest Control-Wildlife Relationships Conference, November 23-24. Oregon State University, Corvallis, Ore. pp. 27-29.	Proceedings
X-4	Bartsch, Alfred F. 1963 Paper mill pollution in Puget Sound, reprint from Transactions of the Twenty-Eighth North American Wildlife and Natural Resources Conference, March 4-6. Published by Wildlife Management Institute, Washington, D. C. 1963. pp. 369-377.	*
X-5	Bartsch, A. F. 1964 Study of pulp and paper mill pollution in Puget Sound. In E. A. Pearson, ed., Advances in water pollution research. Proceedings of the Second International Water Pollution Research Conference, Tokyo, August, 1964. Pergamon Press, New York. pp. 43-64.	*
X-6	Bartsch, A. F., R. J. Callaway, R. A. Wagner, and C. E. Woelke 1967 Technical approaches toward evaluating estuarine pollution problems. In Estuaries, edited by George H. Lauff. Publication No. 83, American Association for the Advancement of Science, Washington, D. C. 1967. pp. 693-700.	*
X-7	Bartsch, A. F., and D. I. Mount 1969 Thermal effects on ecological systems. In Northwest Conference on the Role of Nuclear Energy, Report on the Second Annual Governor's Conference on Conservation. Portland, Oregon, December 4-5. Published by the Governor's Office, State of Oregon, Salem. pp. 117-124.	*
X-8	Bartsch, A. F. 1970 Water pollution -- an ecological perspective. Journal Water Pollution Control Federation, 42(5,Pt.1):819-823.	Journal *

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Y-1	Bauer, Ralph R.		
	1969	Flathead Lake bacteriological survey. Pacific Northwest Water Laboratory, Corvallis, Ore. 57 pp.	OP
Y-2	Bodien, Danforth G.		
	1969	Plywood plant glue wastes disposal, Final report No. FR-5. Pacific Northwest Water Laboratory, Corvallis, Ore. 84 pp.	*
Y-3	Clark, B. David		
	1968	Basic waste characteristics at winter recreation areas. Progress Report PR-7. Pacific Northwest Water Laboratory, Corvallis, Ore. 84 pp.	NTIS #
Y-4	Clark, B. David		
	1970	Evaluation of extended aeration treatment at recreation areas. Progress Report No. PR-8. Working Paper No. 68. Pacific Northwest Water Laboratory, Corvallis, Ore. 68 pp.	NTIS #
Y-5	Clark, B. David, and Kenneth A. Dostal		
	1968	Evaluation of waste treatment system: Chemawa Indian School. Pacific Northwest Water Laboratory, Corvallis, Ore. 62 pp.	* NTIS #
Y-6	Clark, B. D.		
	1967	Houseboat wastes -- characteristics and treatment. Report No. PR-6. Pacific Northwest Water Laboratory, Corvallis, Ore. 33 pp.	NTIS #
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Y-8	Hernandez, D. J.		
	1967	Effluent characteristics. Tertiary waste treatment plant. Camp Angell Job Corps Conservation Center. Interim Report PR-3. Federal Water Pollution Control Administration, Northwest Region, Corvallis, Ore. 7 pp. Unpublished.	ILL
Y-9	Pacific Northwest Water Laboratory, Technical Services Program		
	1967	Pacific Northwest watercraft pollution study. Pacific Northwest Water Laboratory, Corvallis, Ore. 40 pp.	OP

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No.	Title of Publication	Source
Y-10	Sceva, Jack E. 1968 Liquid waste disposal in the lava terrane of Central Oregon. Report No. FR-4. Pacific Northwest Water Laboratory, Corvallis, Ore. 66 pp.	NTIS PB 191-874
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MISCELLANEOUS

No.	Title of Publication	Source
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Z-1	Marston, Richard B., Robert M. Tyo, and Stephen C. Middendorff 1969 Endrin in water from treated Douglas fir seed. In section entitled: Pesticides in Water. Pesticides Monitoring Journal. 2(4):167-171.	Journal
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